

Product datasheet for **SC114640**

BRP44 (MPC2) (NM_015415) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRP44 (MPC2) (NM_015415) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRP44
Synonyms:	BRP44; SLC54A2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114640 sequence for NM_015415 edited (data generated by NextGen Sequencing) ATGTCGGCCGCGGTGCCCGAGGCTGCGGGCCACCTACCACCGGCTCCTCGATAAAGTG GAGCTGATGCTGCCCAGAAAATTGAGGCCGTTGTACAACCATCCAGCAGGTCCCAGAACA GTTTTCTTCTGGGCTCCAATTATGAAATGGGGTTGGTGTGTGCTGGATTGGCTGATATG GCCAGACCTGCAGAAAACTTAGCACAGCTCAATCTGCTGTTTTGATGGCTACAGGGTTT ATTTGGTCAAGATACTCACTTGTAAATTATCCAAAAAATTGGAGTCTGTTTGCTGTTAAT TTCTTTGTGGGGCAGCAGGAGCCTCTCAGCTTTTTCGTATTTGGAGATATAACCAAGAA CTAAGCTAAAGCACACAATAA Clone variation with respect to NM_015415.3


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015415 unedited
TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGTACTCCAGGCGAGAGGCGGA
CGCGAGTCGTCGTGGCAGGAAAAGTGACTAGCTCCCTTCGTTGTGTCAGCCAGGGACGAGA
ACACAGCCACGCTCCCACCCGGCTGCCAACGATCCCTCGGCGGCGATGTCGGCCGCCGGT
GCCCAGGCGCTGCGGGCCACCTACCACCGGCTCCTCGATAAAGTGAGCTGATGCTGCC
GAGAAATTGAGGCCGTTGTACAACCATCCAGCAGGTCCAGAACAGTTTTCTTCTGGGCT
CCAATTATGAAATGGGGTTGGTGTGTGCTGGATTGGCTGATATGGCCAGACCTGCAGAA
AAACTTAGCACAGCTCAATCTGCTGTTTTGATGGCTACAGGGTTTATTTGGTCAAGATAC
TCACTTGTAAATTATCCAAAAAATTGGAGTCTGTTTGTGCTTAATTTCTTGTGGGGCA
GCAGGAGCCTCTCAGCTTTTTCGTATTTGGAGATATAACCAAGAACTAAAAGCTAAAGCA
CACAAATAAAGAGTTTCTGATCACCTGAACAATCTAGATGTGGACAAAACCATTTGGGAC
CTAGTTTATTATTTGGTTATTGATAAAGCAAAGCTAACTGTGTGTTAGAAGGCACTGTA
ACTGGTAGCTAGTTCTTGATTCAATAGAAAAATGCAGCANACTTTTAATAACAGTCTCTC
TACATGACTTAAGGAACTATCTATGGATATTAGTAACATTTTTCTACCATTTGTCCGTA
ATAACCATACTTGCTCGTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
CATAGCTGGTNCCTGAACAGATCCCGGTGGGCATCCTGTGACCCCTNCCCAGTGCTCTCCT
GGCCTGGAAGTGCACTCCATGCCACCAGCCTTGTCTATAAAATNAAGTGCTCATTTTTG
CTGACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015415 unedited
TATGAACCGCGGCCGAATCTAAAGTCGGTTTTTTTTTTTTTTTTTTTACGAGCAAGTATG
GTTTATTACGGACAAATGGTAGAAAATGTTACTAATATCCATAGATAAGTTCCTTAAGCC
ATGTACAGAGACTGCTATTAAGCCTGCTGCATTTTTCTATTGAATCAACAACCTACCTA
CCACCTACAGGGCCTTCTAAACACAGTTACCTTTGCTTTGTCAATAACCAATAATAA
ACTAGGTCCCAATGGCTTTGCCACATCTACATTGCACACGCGATCAGGAACCTCTCAT
TGGCGCGCTCCACCTCTTACCCCTGGCTCTCTCCCCCGTGCCAAAACCTGACAGGCT
CTTGCTGTCCCCCGTCCAATTTATCCTGCCCCCCCCCTTTCTCCGCACTCTCGCTCCC
GACTTTCCCAACCACTCTCCCTGCCCCCTTTTCCCCCTCACGCTCATCTCTCCCTTC
CTCCCCCCCCCCCCCTTTCTTTTCCCTTCTCCCCCCTTCCCCCCTTTCTTTCC
TCCCTATCTCCCCCTCACCCCTCCTCGTACGCCATTTACTCCCCACCGCCCGCC
CTTTTCCATCCTTTACCGCTTTTCGCTCTTGGCAGCGCGCACCTCCTCCAACCTTTTC
TTAACTCCTCCCTTTCCCCCTCCCCCACTCTTACCCCACTTTTCTTTCCCCCTACCTC
CCCCCCCCCCCCCTCTTTTCTCTTCCCCCTTCCCCCCCCCTCTTCGCGCTC
CAGCTTATTCTTTACACCTCTGTTTACCGAGTGCCACCCCTCTCCCCACTCCACCCC
TTTTTCCCCCTCCACCCCTCTTTTCTTCACTCACATCTCATACCTCTCTCCCCC
TTCTCTTCCCACTCCCTCTTCTCACTCTCTCTTTTCTCTCCCCCTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_015415

Insert Size:

860 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_015415.1 , NP_056230.1
RefSeq Size:	811 bp
RefSeq ORF:	384 bp
Locus ID:	25874
UniProt ID:	O95563
Cytogenetics:	1q24.2
Domains:	UPF0041
Gene Summary:	Mediates the uptake of pyruvate into mitochondria.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.